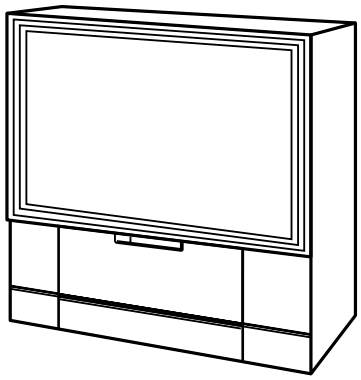
SHARP

# SERVICE MANUAL

S59H264LHP400



## REAR PROJECTION HDTV

## MODEL 64LHP4000

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

### OUTLINE

This model is based on Model 64LHP5000, but not equipped with the DTV unit. For servicing, refer to the Service Manual (S29C764LHP5-P, S29C864LHP5-P) for the 64LHP5000 Projector Unit.

### CONTENTS


Page

- CHANGING PARTS LIST ..... 2
- SPECIFICATIONS ..... 3
- OPERATION MANUAL ..... 4
- ADJUSTMENT ..... 10
- PARTS LIST ..... 11
- PACKING OF THE SET ..... 16


SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

# CHANGING PARTS LIST

| Ref. No. | Description | Part No. (64LHP5000) | Part No. (64LHP4000) | Note |
|---|---|---|---|---|
| **■ PRINTED WIRING BOARD ASSEMBLIES** | | | | |
| | Tuner μ-COM Ass'y | 9GJAWV1723 | 9GJAWV1755 | Changed |
| | Sub Video Ass'y | 9GJAWV1726 | 9GJAWV1745 | Changed |
| **■ ELECTRICAL PARTS** | | | | |
| ● TUNER μ-COM ASS'Y | | | | |
| IC2201 | TV System Control | 9GJPD5462E9 | 9GJPD5537B9 | Changed |
| IC2202 | TV Control | 9GJPD5463E9 | 9GJPD5463B9 | Changed |
| ● SUB VIDEO ASS'Y | | | | |
| R6187 | | 9GJRS1/16S0R0J | — | Abolished |
| **■ CABINET AND MECHANICAL PARTS** | | | | |
| ● FRONT VIEW (1/2) PARTS LIST | | | | |
| 10 | Door Ass'y | 9GJAAN1446 | 9GJAAN1448 | Changed |
| 13 | Front Panel Ass'y | 9GJAMB2630 | 9GJAMB2639 | Changed |
| 26 | LED Lens | 9GJAAM2730 | ← | Quantity changed from 4 to 2. |
| 31 | DTV Logo Label | 9GJAAX2677 | — | Abolished |
| ● REAR VIEW (1/2) PARTS LIST | | | | |
| 11 | Rear Cover (DTV) Ass'y | 9GJANE1577 | — | Abolished |
| 13 | Screw | 9GJPMB40P160FZ | — | Abolished |
| 15 | Screw | 9GJABZ30P060FZ | — | Abolished |
| 16 | DTV Holder | 9GJANG2318 | — | Abolished |
| ● REAR VIEW (2/2) PARTS LIST | | | | |
| 13 | Special Screw | 9GJABA1240 | ← | Abolished (1pc.) |
| 24 | Cabinet Wire Holder | 9GJAEC1263 | ← | Abolished (2pcs.) |
| 32 | Binde Holder | 9GJAEC1785 | ← | Abolished (1pc.) |
| 33 | Ferrite Core | 9GJATX1033 | — | Abolished |
| 35 | AC Cord Holder B | 9GJANG2311 | — | Abolished |
| 36 | Wire Harness C (J14) | SGJADX2491 | — | Abolished |
| 37 | AC Power Cord B | 9GJADG1181 | — | Abolished |
| 39 | Special Screw | 9GJABA1271 | ← | Abolished (3pcs.) |
| 40 | Ferrite Core | 9GJATX1031 | — | Abolished |
| 41 | Nylon Clamper 18N | 9GJAEC1789 | — | Abolished |
| 42 | Nylon Binder | 9GJAEC-093 | — | Abolished |
| 44 | Screw | 9GJPMB40P250FZ | — | Abolished |
| 45 | Cabinet (64S) | 9GJAMM2941 | 9GJAMM2980 | Changed |
| ● VIDEO BLOCK PARTS LIST | | | | |
| 15 | Lead Clamper M | 9GJAEC1611 | — | Abolished |
| 21 | Model Plate | …… | 9GJAAL2296 | Added |
| ● PACKING PARTS LIST | | | | |
| 1 | Upper Carton (64WS) | 9GJAHD2996 | 9GJAHD3020 | Changed |
| 11 | Remote Control Unit | RRMCG1486CESA | RRMCG1509CESA | Changed |
| 16 | Conv. Attention Card | 9GJARM1153 | 9GJARM1161 | Changed |
| 17 | Operation Manual (EN) | 9GJARB1518 | 9GJARB1525 | Changed |
| 38 | Barcode Label | DLAB-1904EWV0 | DLAB-2006WEV0 | Changed |

# Specifications

## Display and amplifier section

Screen size ..... 64"
CRT ..... 7" High focus CRT x 3
Brightness (White peak) ..... 400 Foot-Lambert
[White window signal input contrast Max.]
without protective screen
Horizontal resolution ..... More than 1400 lines
[Input digital test pattern (1400 lines resolution)]
Input terminals ..... 4 video inputs
4 S-VIDEO input jacks (Y/C separate INPUT)
2 COMPONENT VIDEO INPUT jacks (Y, $C_B/P_B$, $C_R/P_R$)
4 audio inputs
CENTER INPUT jack
Output terminals ..... MONITOR/AUDIO
Input terminal signal ratings
Input signal
Video signal:
Composite and S-VIDEO(Y): 1.0 Vp-p (75 ohms load)
COMPONENT (Y): 1.0 Vp-p (75 ohms load)
($C_B/P_B$, $C_R/P_R$): 0.7 Vp-p (75 ohms load)
Audio signal (including CENTER): 500mV rms
Input impedance ..... Video input: 75 ohms
Audio input (including CENTER): 22 k-ohms or more
Input signal polarity (Video) ..... Synchronized negative
Output terminal signal ratings
Output signal ..... Video signal: 1 Vp-p (75 ohms load)
Audio signal: 500 mV rms (100 % modulation)
Output impedance ..... Video output: 75 ohms
Audio output: Less than 1 k-ohms
Effective output
Front both channels driven ..... 15 W + 15 W
(THD. 1 % 1 kHz, 8 ohms)
Built-in speaker system ..... 16 cm (6-5/16 in) full range x 2
..... 6.6 cm (2-9/16 in) tweeter x 2
IR-MOUSE G-LINK Terminal x 1

## Tuner section

Circuit type ..... Video signal detection:
PLL full synchronous detection
PLL digital synthesizer system
NTSC Reception channel
VHF; CH2–CH13, UHF; CH14–CH69
CATV (STANDARD, IRC or HRC)
CATV 1-125 CH
Antenna terminal
..... Antenna terminal, 75 ohms UNBAL,
F-type connector (VHF, UHF MIXED)

## Electrical section, miscellaneous

Power requirements ..... 120 V AC, 60 Hz
Power consumption ..... 343 W
External dimensions .... 1510 (W) x 698 (D) x 1425 (H) mm
59-7/16 (W) x 27-31/64 (D) x 56-1/8 (H) inch

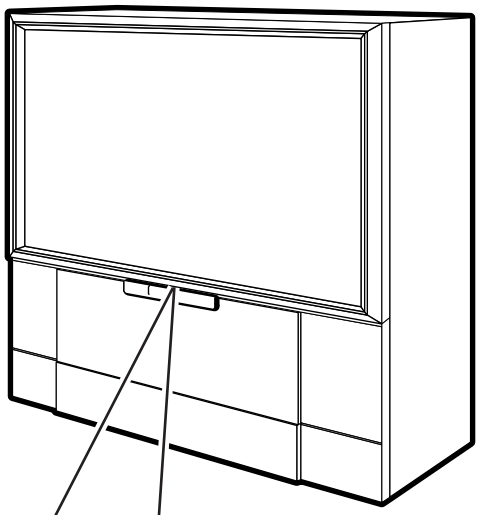
Weight of main unit ..... 152 kg (334.8 lb)

***NOTE:***
*Specifications and design are subject to possible modifications without notice due to improvements.*

# Front Panel Functions

A flip-down door conceals the control panel. Push gently and release, to open the door. To close the door, lift it back up into place.

***NOTE:***
*If you accidentally pull the door, it may not shut properly. Push the door back in to shut it.*



### ① POWER/DOWNLOAD indicator
Lights when power is on. Flashes when downloading the GUIDE Plus+ program information.

### ② Timer indicator
Lights GUIDE Plus+ timer is set.

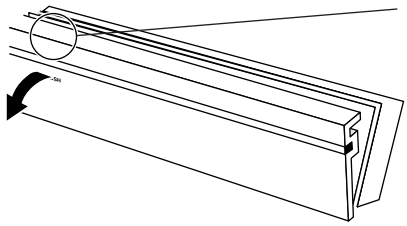
### ③ OPC sensor
Sensor to detect the room brightness.

### ④ POWER button (STANDBY/ON)
Press once to turn on the Rear Projection TV. Press again to turn off the Rear Projection TV.

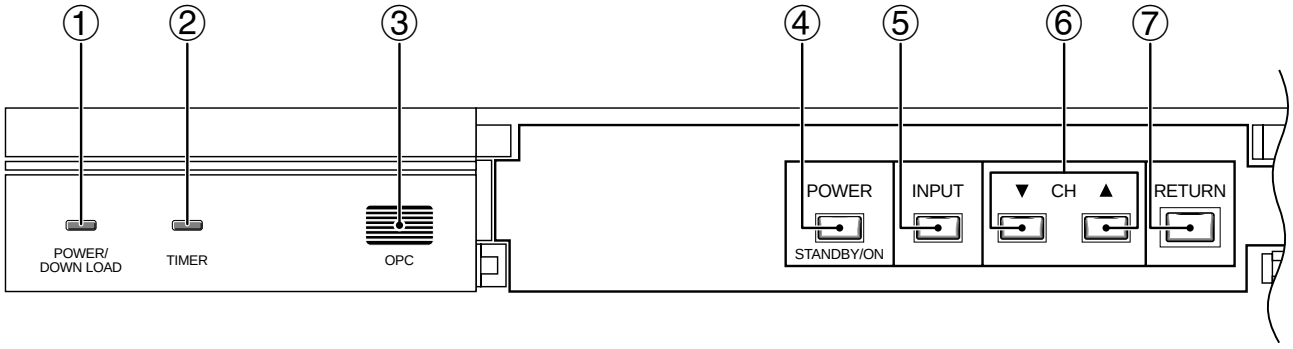
### ⑤ INPUT button
Press to select your program source. Each press of the INPUT changes the selection to the next source.

### ⑥ CHANNEL buttons
Press plus ▲ or minus ▼ to tune to a higher or lower channel. Only the preset channels can be tuned in using these buttons.

### ⑦ RETURN button
Press to set the Rear Projection TV to its initial mode.



In some cases, the door may only open slightly when pushed.
In such cases, open the door with your finger as shown in the figure at left.



**Initial mode**

| | |
|---|---|
| Input selector: | Set to TV. |
| TV channel: | Remains at the last channel set. |
| VOLUME: | Remains at the last setting. |
| MUTING: | OFF |
| VIDEO | |
| MODE: | STD |
| Parameters: | Set to 0. |
| 3D Y/C LEVEL: | 3 |
| 3D NR LEVEL: | 3 |
| CNR: | OFF |
| FAV. COLOR: | STD. |
| FLESH TONE: | ON |
| AUDIO | |
| MTS: | MAIN |
| Parameters: | Set to 0. |
| SURROUND: | OFF |
| VIEW | |
| AUTO VIEW: | OFF |
| MODE: | SMART STRETCH |
| V. POSITION: | Set to 0. |
| CC: | OFF |
| OPC: | OFF |
| SYSTEM IN/OUT | |
| SPEAKER: | NORMAL |
| AUDIO OUT: | FIXED |

- When this button is pressed while adjusting the outer point convergence, the outer point convergence returns to the initial mode.

## ⑧ VOLUME buttons

Press plus (+) button to increase the volume, press minus (–) button to decrease it.

## ⑨ INPUT 4 jacks

These inputs are for Video Movie and VCR. Use RCA-type pin plug cords (the same as those used in Hi-Fi systems) and S-VIDEO cords for connections. When the audio source to be connected is monaural, connect the source to the L-(MONO) jack.

## CAUTION:

Do not press any operation button on the Rear Projection TV or the remote control unit while recording. Signals from the MONITOR OUTPUT jacks may be temporarily interrupted when a button is pressed.

## ATTENTION

The Rear Projection TV Receiver will not function properly in the following cases.

- An electrical discharge in the CRT.
- Lightning storms.
- High static electricity environment.
- Poor voltage regulation in the power source.

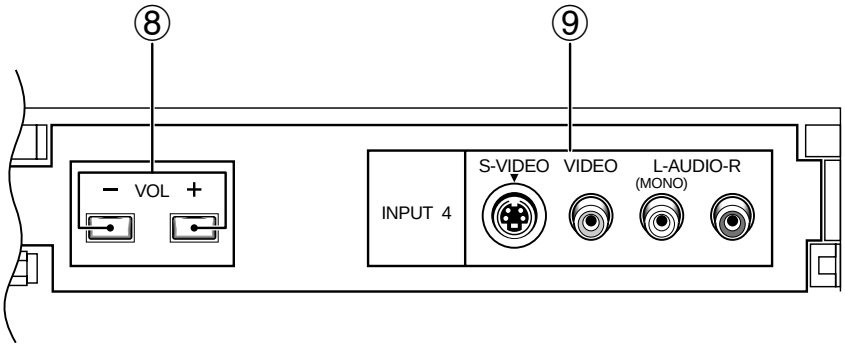
If the Rear Projection TV does not operate properly, reset it as follows:

1. Unplug the AC cord.
2. After approximately 1 minute, turn on the power with switch and ④ POWER button.

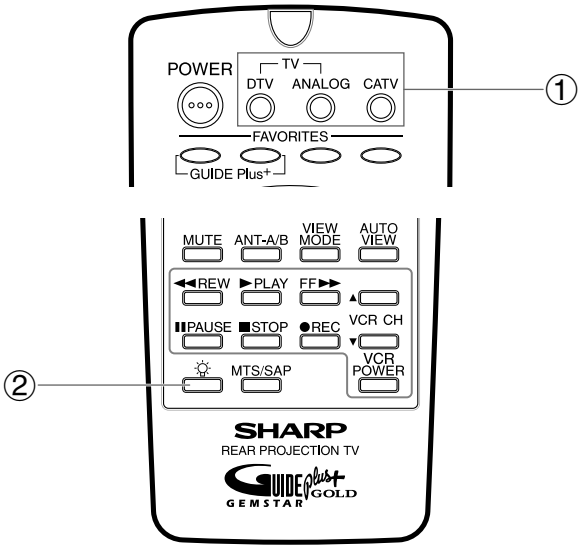
If the normal operation cannot be restored after the above treatment, immediately unplug the power cord and call your nearest SHARP-authorized service center.

***NOTE:***

*On rare occasions, an electrical discharge may occur inside the CRT. It makes a short, sharp pop and either no sound is produced or the volume level changes by itself. The TWIN PICTURE and SEARCH SCREEN function will be cancelled automatically if an electrical discharge occurs when this function is engaged.*



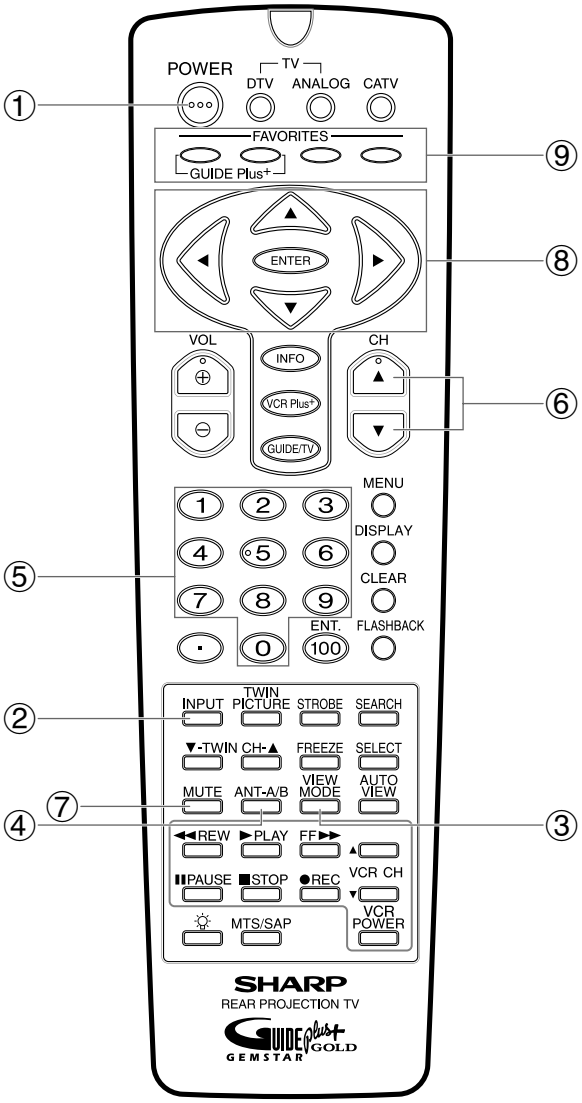
# Remote Control Unit Functions




## REMOTE CONTROL UNIT SETTING BUTTONS

① **Remote control mode select buttons**
Use to switch the remote control unit modes.
- This remote control can be used to operate the Rear Projection TV, a DTV Decoder, and a cable TV box.
- By selecting one of the three mode select buttons, this remote control can be used to adjust common functions, such as channel selection, for that device.

② **Light button**
When this button is pressed, some buttons on the remote control unit will light. The lighting will turn off if no operations are performed within about six seconds.
This button is used for performing operations in dark places.




## REAR PROJECTION TV (MONITOR TV) CONTROL BUTTONS

① **POWER button**
Turns the power of the Rear Projection TV on and off.

② **Input button (TV, INPUT 1 to INPUT 4)**
Press the button to select the source you wish to watch. The screen will display your selection.

③ **VIEW MODE button**
Press to select the VIEW MODE.

④ **ANT-A/B button**
Press to switch between ANTENNA-A and ANTENNA-B when you wish to watch TV.

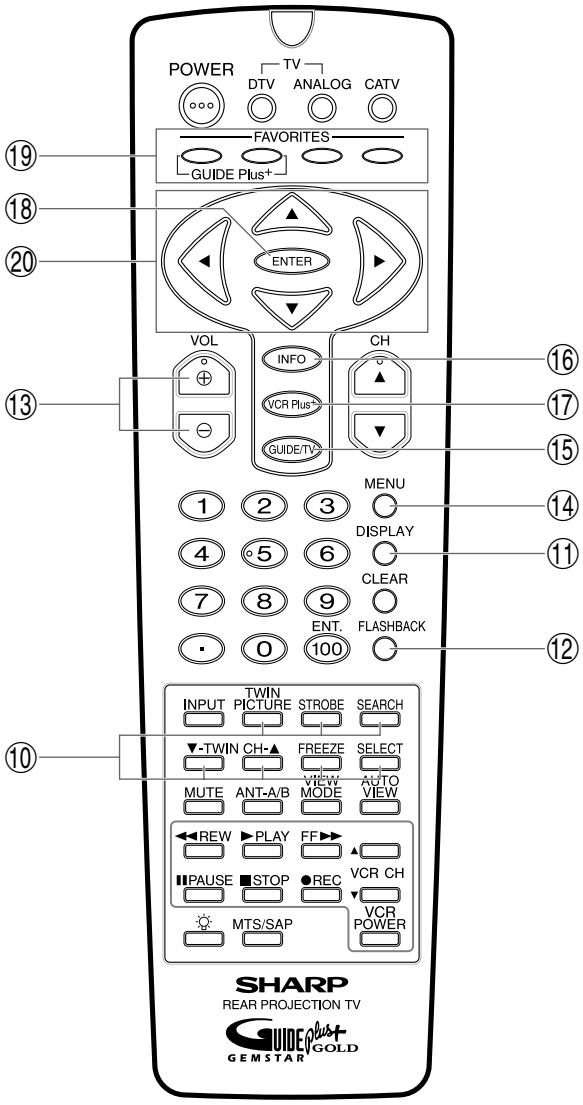
⑤ **Direct channel selection buttons**
Press the button (or buttons) that corresponds to the channel that you wish to watch.

⑥ **CH (channel) ▲, ▼ button**
Press plus ▲ or minus ▼ to tune in a higher or lower channel. Only the preset channels can be tuned in using these buttons.

⑦ **MUTE button**
Press to temporarily turn off the sound. Press again to return to the previous volume level.

⑧ **Cursor/ENTER buttons (ENTER, ◀, ▶, ▲, ▼)**
◀, ▶, ▲, ▼: Press to select or adjust items on the menu screen.
ENTER: Press to activate the selected function.

⑨ **FAVORITES buttons**
These buttons call up the channels that have been assigned to them.




⑩ **TWIN PICTURE/SEARCH screen buttons**

TWIN PICTURE: Press to turn the TWIN PICTURE screen function on and off.

STROBE: Press to turn the STROBE screen on and off.

SEARCH: Press to select the SEARCH screen mode.

SELECT: Selects the screen for switching the channel or input source.*1

FREEZE: When this button is pressed with the regular screen, the screen will change to the TWIN PICTURE screen and the picture at the time the button was pressed will become the sub-picture, displayed as a frozen image.

▼-TWIN CH-▲: Used to switch the channel for the sub-picture of the TWIN PICTURE screen.

⑪ **DISPLAY button**

Turns the screen indicators for the input source, channel, setting, and they will appear for a few seconds.

⑫ **FLASHBACK button**

Press to switch between the current channel and the channel you were watching immediately before.

⑬ **VOL (volume) +, – buttons**

Press plus (+) button to increase the volume, press minus (–) button to decrease it.

Volume level will appear on the screen as numbers and a bar graph. The maximum volume level is “63”.

The display will disappear from the screen after 2 seconds.

⑭ **MENU button**

Press to turn on the menu screen for use in function selection. Press again to return to normal TV screen.

⑮ **GUIDE/TV button**

⑯ **INFO button**

⑰ **VCR Plus+ button**

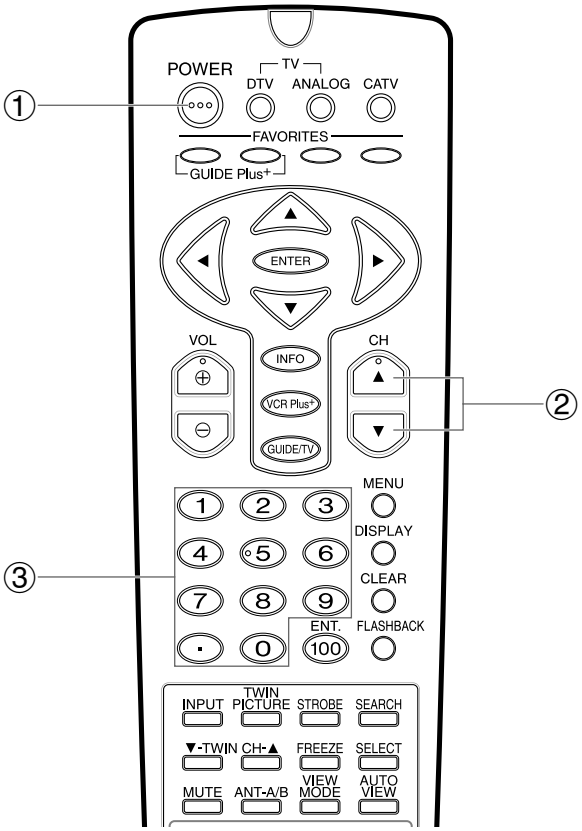
⑱ **ENTER button**

⑲ **ACTION button**

⑳ **button**

The buttons of ⑮-⑳ listed above are GUIDE Plus+ buttons.

*1 With the 9-SEARCH screen, the search picture’s input source and channel cannot be switched.

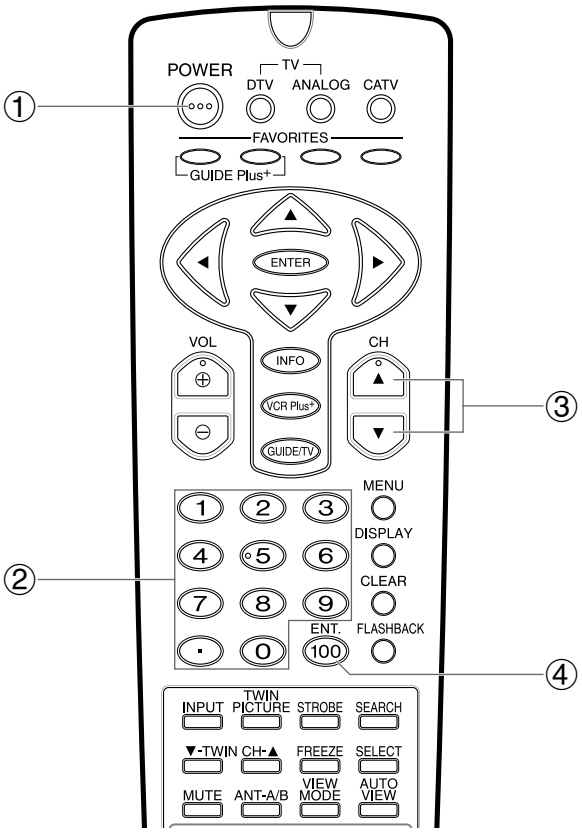



## SHARP DTV DECODER CONTROL BUTTONS

① **POWER button**
Turns the power of a connected Sharp DTV Decoder (such as the DTV-TU1000) on and off.

② **CH (channel) ⏶, ⏷ button**
Press plus ⏶ or minus ⏷ to tune in a higher or lower channel.

③ **Direct channel selection button**
Press the button (or buttons) that corresponds to the channel that you wish to watch.




## CABLE CONTROL BUTTONS

Cable converters which are made by other makers and are not preset can also be operated using the remote control unit if buttons ① to ② have learned the functions.

① **POWER buttxon**
Turns the power of a connected cable converter on and off.

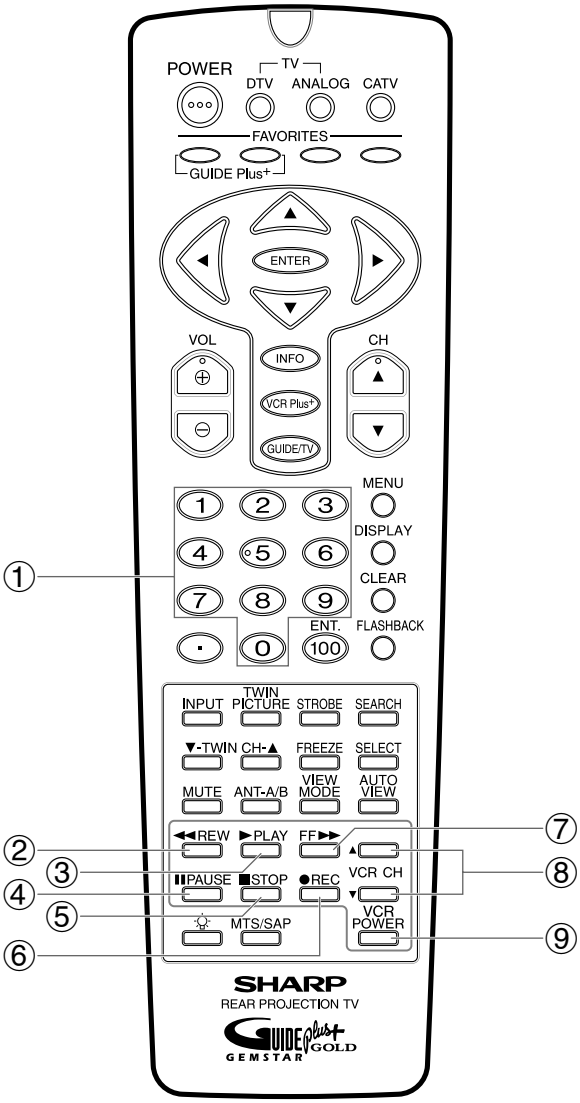
② **Direct channel selection buttons**
Press the button (or buttons) that corresponds to the channel that you wish to watch.

③ **CH (channel) ⏶, ⏷ buttons**
Press plus ⏶ or minus ⏷ to tune in a higher or lower channel.

④ **ENTER button ***
Fix the selected channel with the direct channel selection buttons.

* Some manufacturers do not preset ENTER.

## VCR CONTROL BUTTONS




If the VCR is preset by OPERATION OF REMOTE CONTROL (page 53), the remote control unit button will function as follows when the mode switch of the remote control unit is set to VCR. When the input button having the same number as the input terminal connecting the VCR is pressed, the VCR can be operated using buttons ① to ⑨.
VCR which are made by other makers and are not preset can also be operated using the remote control unit if buttons ① to ⑨ have learned the functions.

① **Numeric buttons**
Use to enter two-digit code numbers when identifying your VCR.

② **◀◀ REW**
Press to rewind a tape. For some VCRs you may need to press STOP first, then REWIND.
In Playback mode, hold button down to view picture moving rapidly in reverse.

③ **▶ PLAY**
Press to play back a tape.

④ **❚❚ PAUSE**
Press to temporarily stop the tape during playback or recording. Press again to release Pause.

⑤ **■ STOP**
Press to stop the tape.

⑥ **● REC**
Press to begin recording.

⑦ **FF ▶▶**
Press to rapidly advance the tape. For some VCRs, you may need to press STOP first, then FF.
In Playback mode, hold button down to view the picture moving rapidly in forward direction.

⑧ **VCR CHANNEL UP (▲)/ DOWN (▼)**
Press to scan up or down through the channels on the VCR.

⑨ **VCR POWER**
Press to turn the VCR on and off.

# ADJUSTMENT

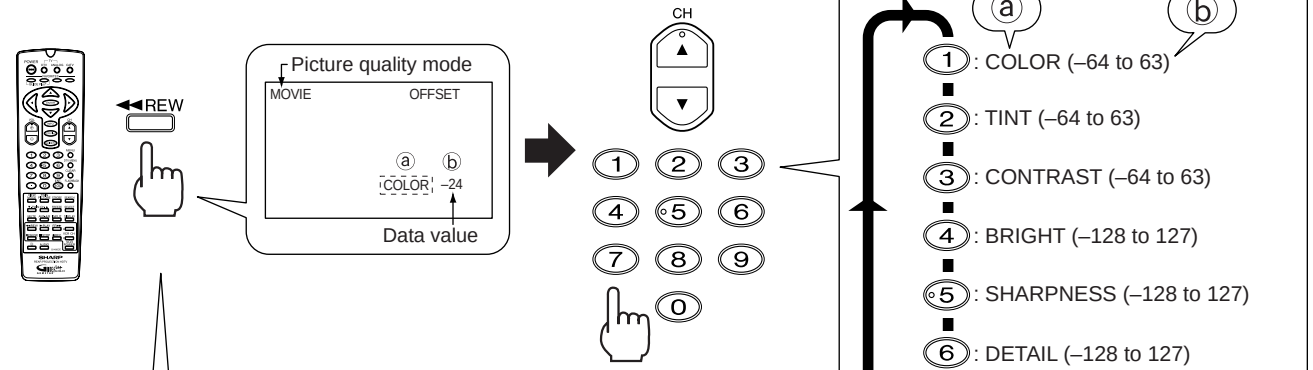
## ■ Factory ADJ Mode

**Start** ..... Start adjusting

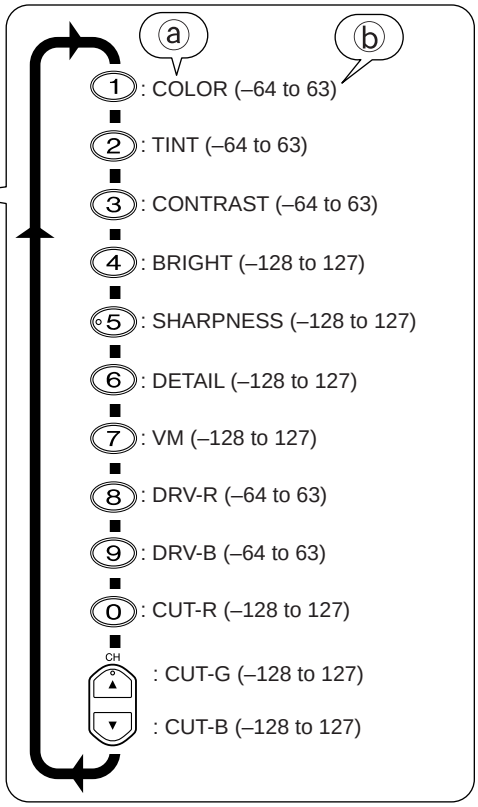
**1st FAC** ..... Select 1st factory adjustment mode, then adjust.

### 8 Others OFFSET Mode

**Start** **1st FAC**



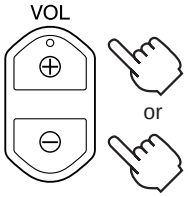

<Picture quality>


a
b
1 : COLOR (–64 to 63)
2 : TINT (–64 to 63)
3 : CONTRAST (–64 to 63)
4 : BRIGHT (–128 to 127)
5 : SHARPNESS (–128 to 127)
6 : DETAIL (–128 to 127)
7 : VM (–128 to 127)
8 : DRV-R (–64 to 63)
9 : DRV-B (–64 to 63)
0 : CUT-R (–128 to 127)
CH
: CUT-G (–128 to 127)
: CUT-B (–128 to 127)

**OFFSET MODE**

| Direct Key | Screen Display | Picture quality mode |
|---|---|---|
| REW (Blue) | MOVIE | MOVIE OFFSET MODE |
| STOP (Green) | GAME | GAME OFFSET MODE |
| PLAY (Red) | TV | TV OFFSET MODE |
| INFO | COLOR TEMP (STD) | COLOR TEMP LOW for STD & (GAME) OFFSET MODE |
| DTV MENU | COLOR TEMP (MOVIE) | COLOR TEMP LOW for MOVIE OFFSET MODE |

<Data value section>




**Note:** The 64LHP4000 remote controller does not have the DTV MENU key. For adjusting the color temperature (movie), use the 64LHP5000 remote controller (RRMCG1486CESA).

# PARTS LIST

## PARTS REPLACEMENT

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

### "HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. MARK
3. REF. NO.
4. PART NO.
5. DESCRIPTION
6. CODE
7. QUANTITY

in **USA**: PWB and part assemblies are supplied through the board exchange program, please contact your local Regional Service Office for additional details.

## NOTES

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part.
  Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
  Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).
  560 Ω → $56 \times 10^1$ → 561 ..... RD1/4PU 5 6 1 J
  47k Ω → $47 \times 10^3$ → 473 ..... RD1/4PU 4 7 3 J
  0.5 Ω → R50 ..... RN2H R 5 0 K
  1 Ω → 1R0 ..... RS1P 1 R 0 K
  Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).
  5.62k Ω → $562 \times 10^1$ → 5621 ..... RN1/4PC 5 6 2 1 F
- Parts marked by ☆ are important parts which relate in X-rays radiation.
  If any of these parts need to be replaced, always replace with specified parts.
- Parts marked by × are important parts which relate in X-rays radiation. If a failure occurs in any of these parts, replace the printed circuit board assembly where the relevant part has already been adjusted as a working component. Do not replace the actual part itself. If any part marked by × is replaced, there is danger of being exposed to X-rays.

MARK ★: SPARE PARTS-DELIVERY SECTION

## PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

| Mark | Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|---|
| | | 9GJAWV1710 | – | Power Supply Ass'y | — |
| ☆ | | 9GJAWV1731 | – | Deflection Service Ass'y | — |
| | | 9GJAWV1712 | – | Amp Ass'y | — |
| NSP | | 9GJAWV1721 | – | CONV.DAC Ass'y | — |
| | | 9GJAWZ6333 | – | ├ Conver. DAC Ass'y | — |
| | | 9GJAWZ6335 | – | ├ Connector Ass'y | — |
| | | 9GJAWZ6337 | – | ├ Front Control Ass'y | — |
| | | 9GJAWZ6339 | – | ├ Front Input Ass'y | — |
| | | 9GJAWZ6348 | – | ├ LED DPO Ass'y | — |
| | | 9GJAWZ6350 | – | ├ SR Ass'y | — |
| | | 9GJAWZ6351 | – | └ SR BNC Ass'y | — |
| | | 9GJAWV1722 | – | AV I/O Ass'y | — |
| | | 9GJAWV1755 | – | Tuner µ-COM Ass'y | — |
| | | 9GJAWV1724 | – | Video Ass'y | — |
| | | 9GJAWV1725 | – | Signal Ass'y | — |
| NSP | | 9GJAWV1733 | – | AC IN, CRT Service Ass'y | — |
| | | 9GJAWZ6344 | – | ├ R CRT Drive Ass'y | — |
| | | 9GJAWZ6345 | – | ├ G CRT Drive Ass'y | — |
| | | 9GJAWZ6346 | – | ├ B CRT Drive Ass'y | — |
| | | 9GJAWZ6354 | – | └ AC IN Ass'y | — |
| | | 9GJAWV1745 | – | Sub Video Ass'y | — |
| | | 9GJAXF1084 | – | TV Front End System Unit (No Servise Parts.) | — |
| | | 9GJAXF1098 | – | RF SW (No Servise Parts.) | — |

## 9GJAWV1755
## TUNER µ-COM ASS'Y

### INTEGRATED CIRCUITS

| Mark | Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|---|
| | IC2201 | 9GJPD5537B9 | M | TV System Control | BN |
| | IC2202 | 9GJPD5463B9 | M | TV Control | BU |

## FRONT VIEW (1/2) PARTS LIST

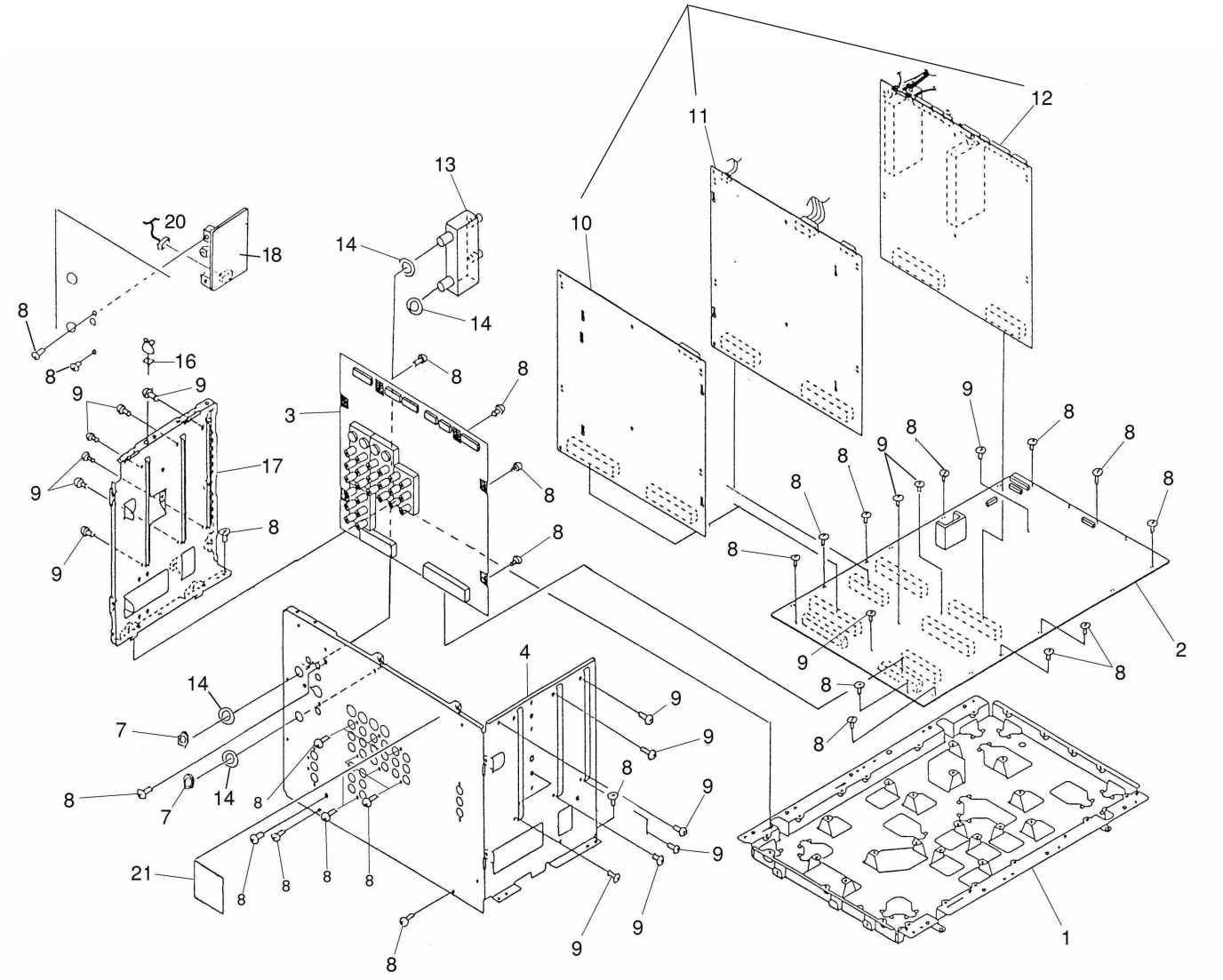
| Mark | Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|---|
| | 10 | 9GJAAN1448 | M | Door Ass'y | BC |
| | 13 | 9GJAMB2639 | M | Front Panel Ass'y | BF |

# VIDEO BLOCK PARTS LIST

| Mark | Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|---|
| NSP | 1 | 9GJANA1584 | – | Video Chassis | — |
| | 2 | 9GJAWV1724 | – | Video Ass'y | — |
| | 3 | 9GJAWV1722 | – | AV I/O Ass'y | — |
| | 4 | 9GJANC2322 | M | Rear Panel (S) | BB |
| | 7 | 9GJABN-087 | M | Hexagonal Duct Nut | AB |
| | 8 | 9GJBBZ30P080FZ | M | Screw | AB |
| | 9 | 9GJBBZ30P080FC | M | Screw | AA |
| | 10 | 9GJAWV1723 | – | Tuner µ-Com Ass'y | — |
| | 11 | 9GJAWV1725 | – | Signal Ass'y | — |
| | 12 | 9GJAWV1726 | – | Sub Video Ass'y | — |
| | 13 | 9GJAXF1098 | – | RF Switch | — |
| | 14 | 9GJWAX0F160N10 | M | Washer | AA |
| NSP | 16 | 9GJAEP-214 | – | Purse Lock L | — |
| NSP | 17 | 9GJANG2305 | – | PWB Side Holder | — |
| | 18 | 9GJAWZ6351 | – | SR BNC Ass'y | — |
| | 20 | 9GJADX2490 | M | 4P Housing Wire (J13) | AH |
| | 21 | 9GJAAL2296 | M | Model Plate | AG |

## VIDEO BLOCK

Refer to Signal Ass'y block

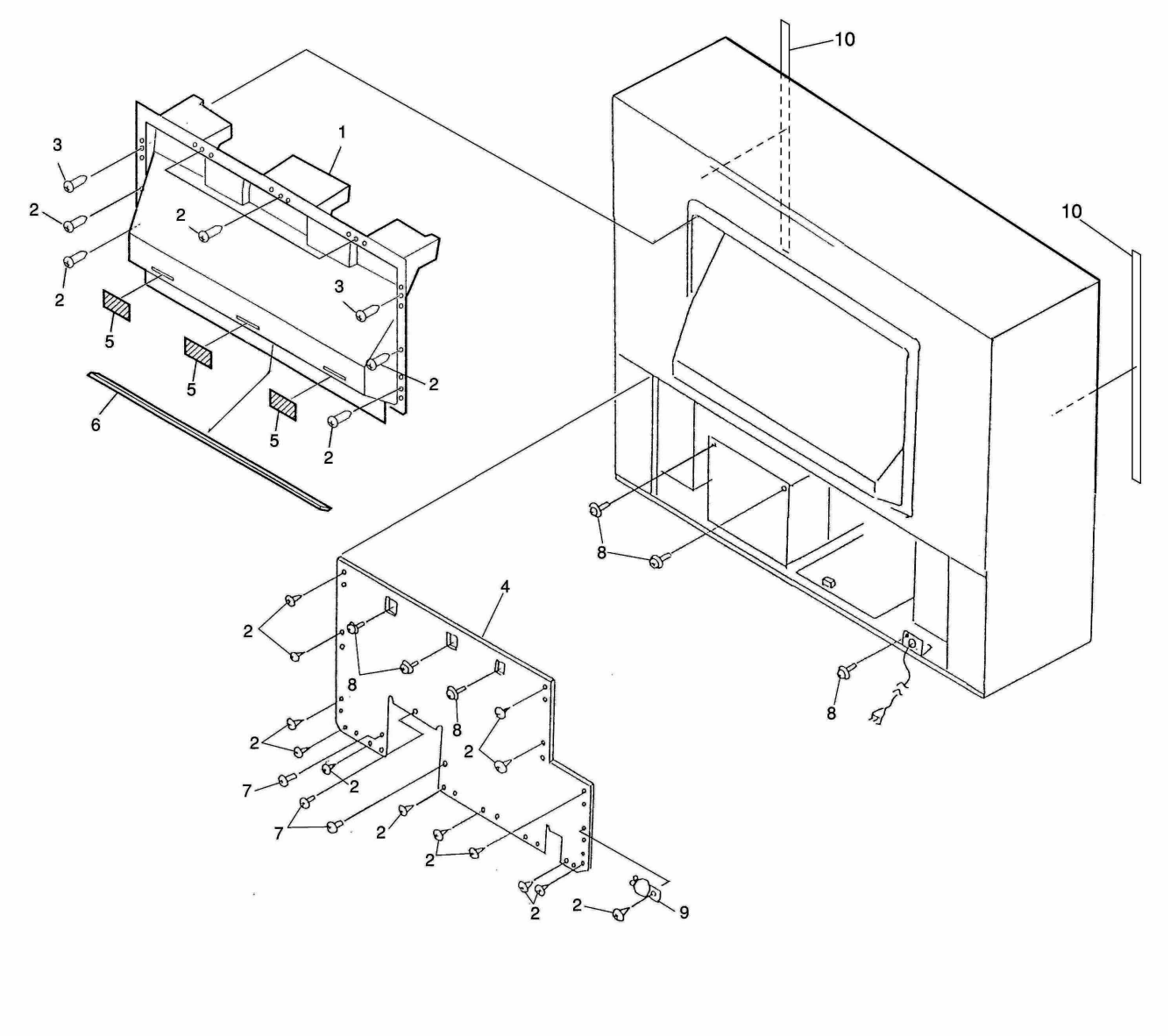


| Mark | Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|---|

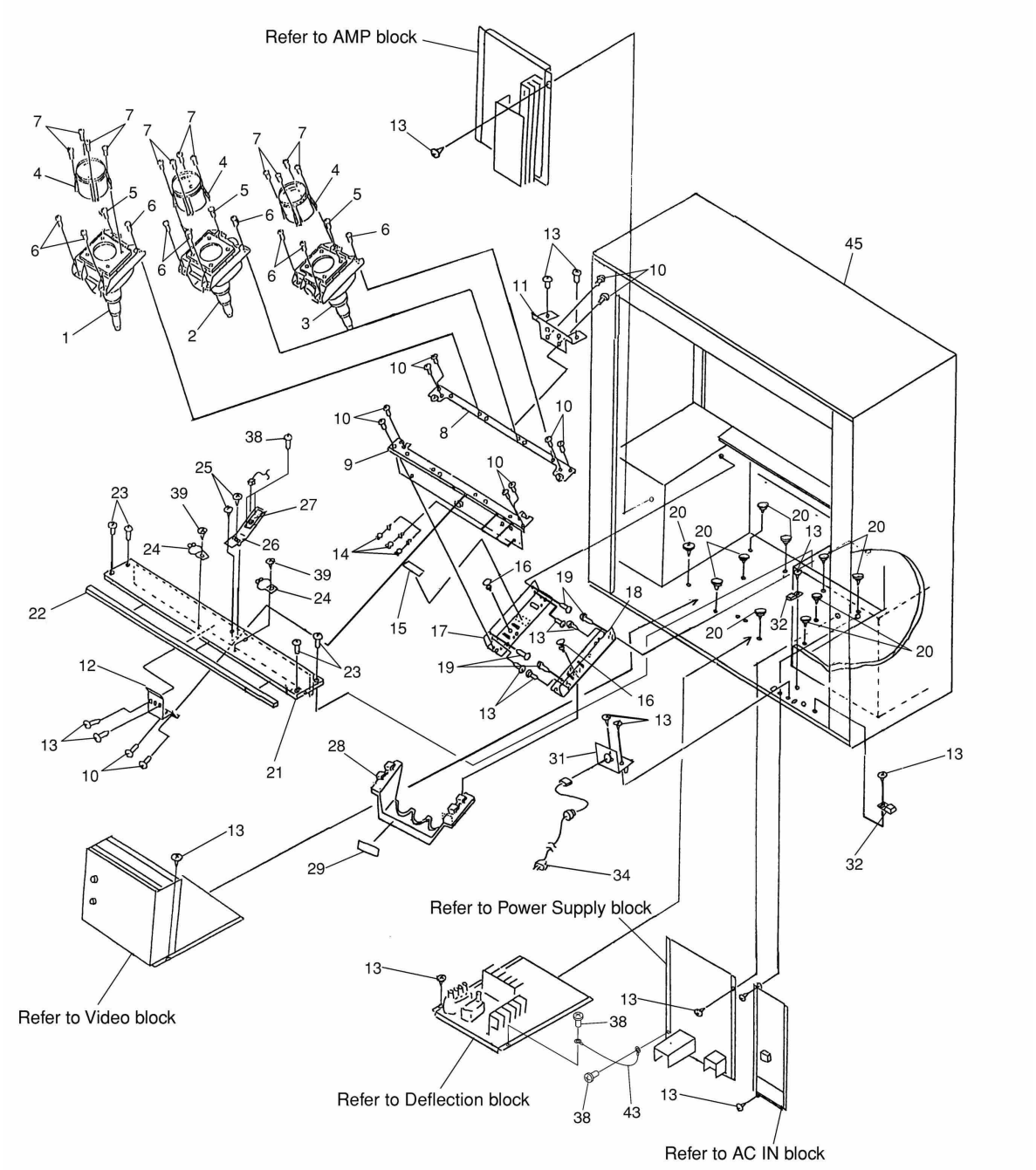
# REAR VIEW (1/2) PARTS LIST

| | | | | | |
|---|---|---|---|---|---|
| | 1 | 9GJAME2296 | M | Mirror Case(51) | BF |
| | 2 | 9GJABA1240 | M | Special Screw | AA |
| | 3 | 9GJPYC40T140FZ | M | Screw | AB |
| | 4 | 9GJAMM2929 | M | Rear Cover | BG |
| | 5 | 9GJAEC1622 | M | Blind Sheet (PVC) | AD |
| | 6 | 9GJAEC1627 | M | Mirror Case Cushion | AD |
| | 7 | 9GJABZ30P100FZ | M | Screw | AB |
| | 8 | 9GJABA1269 | M | Screw | AC |
| NSP | 9 | 9GJAEC1263 | – | Cabinet Wire Holder | — |
| | 10 | 9GJAEC1778 | M | Screen Cushion 64 | AL |

## REAR VIEW (1/2)



## REAR VIEW (2/2)


Refer to AMP block
Refer to Power Supply block
Refer to Video block
Refer to Deflection block
Refer to AC IN block

## REAR VIEW (2/2) PARTS LIST

| Mark | Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|---|
| ☆ | 1 | 9GJAWY1415 | M | CRT Service Ass'y 64B | CR |
| ☆ | 2 | 9GJAWY1413 | M | CRT Service Ass'y G | CQ |
| ☆ | 3 | 9GJAWY1414 | M | CRT Service Ass'y 64R | CR |
| ☆ | 4 | 9GJAMR3121 | M | Lens Ass'y | CA |
| | 5 | 9GJFBT40P120FZ | M | Screw | AC |
| | 6 | 9GJABA1168 | M | Screw (Steel) | AB |
| | 7 | 9GJAMZ40P080FZ | M | Screw | AB |
| NSP | 8 | 9GJANA1541 | – | CRT Front Frame (62) | — |
| NSP | 9 | 9GJANA1542 | – | CRT Rear Frame (62) | — |
| | 10 | 9GJACZ40P080FM | M | Screw | AK |
| NSP | 11 | 9GJANG2118 | – | CRT Front Holder | — |
| NSP | 12 | 9GJANG2119 | – | CRT Rear Holder | — |
| | 13 | 9GJABA1240 | M | Special Screw | AA |
| | 14 | 9GJAEC1257 | M | Cord Holder | AD |
| NSP | 15 | 9GJAAX2497 | – | Tube Label | — |
| | 16 | 9GJAEC-441 | M | Rivet | AC |
| NSP | 17 | 9GJANA1497 | – | CRT Stand Holder (R) | — |
| NSP | 18 | 9GJANA1496 | – | CRT Stand Holder (L) | — |
| | 19 | 9GJPMB50P250FZ | M | Screw | AC |
| | 20 | 9GJABA1121 | M | Special Screw | AE |
| NSP | 21 | 9GJAMM2939 | – | Back Cover Panel | — |
| | 22 | 9GJAEC1779 | M | Back Cover Cushion | AL |
| | 23 | 9GJABA1241 | M | Special Screw | AD |
| NSP | 24 | 9GJAEC1263 | – | Cabinet Wire Holder | — |
| | 25 | 9GJABA1210 | M | Screw (Steel) | AC |
| NSP | 26 | 9GJANG1958 | – | Remote Sensor Holder | — |
| | 27 | 9GJAWZ6350 | – | R/C Receiver Ass'y | — |
| NSP | 28 | 9GJAMR2563 | – | Tray (PLS) | — |
| NSP | 29 | 9GJAAX2672 | – | Solder Warning Label | — |
| NSP | 31 | 9GJANG2307 | – | AC Cord Holder A | — |
| NSP | 32 | 9GJAEC1785 | – | Binde Holder | — |
| ⚠ | 34 | 9GJADG1180 | M | AC Power Cord | AU |
| | 38 | 9GJBBZ30P080FZ | M | Screw | AB |
| | 39 | 9GJABA1271 | M | Special Screw | AA |
| | 43 | 9GJADX2505 | M | 1P Lead Wire | AE |
| | 45 | 9GJAMM2980 | M | Cabinet (64S) | DB |

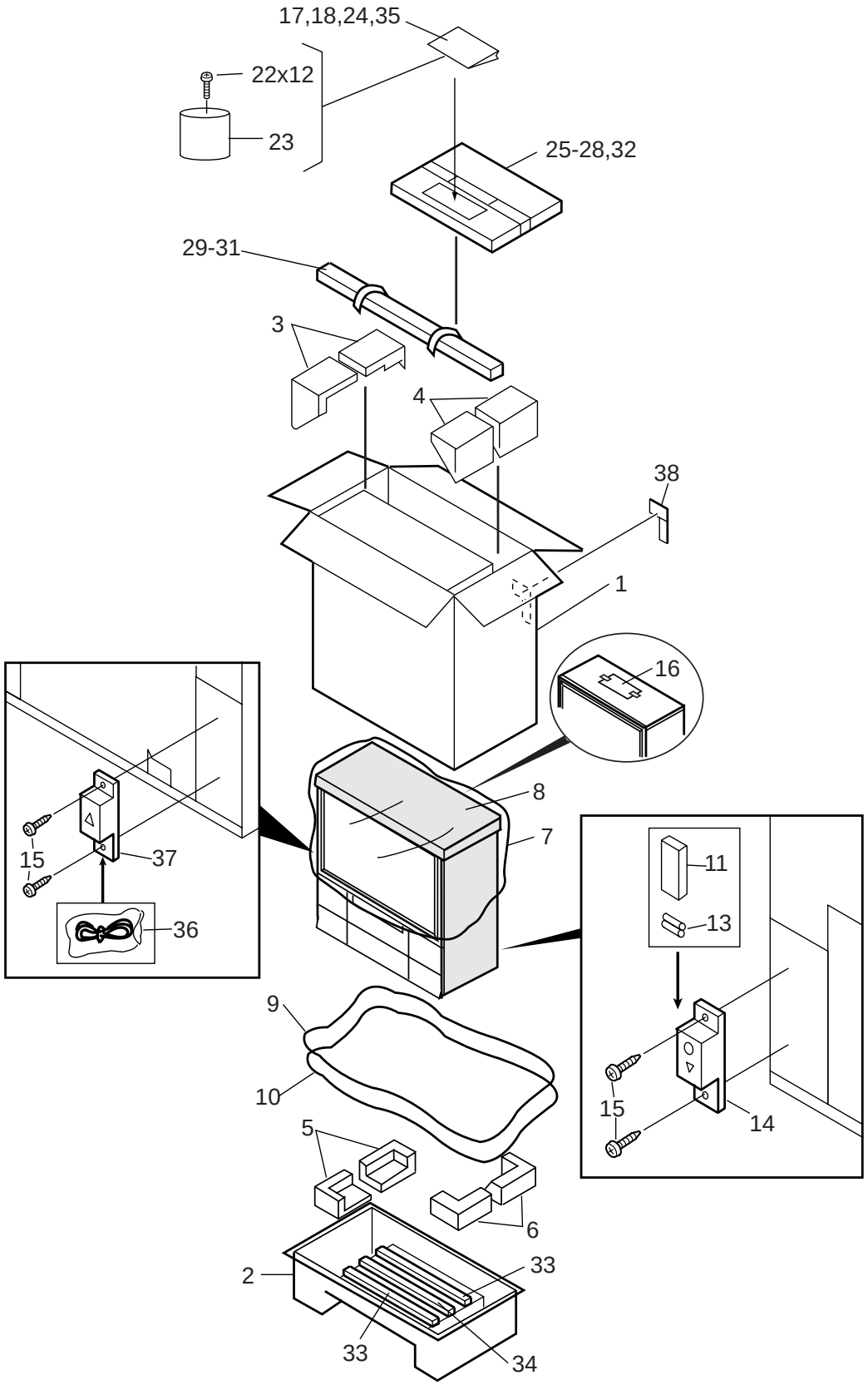
### OTHERS

| | | | |
|---|---|---|---|
| 9GJADX2231 | M | 1P Lead Wire (J3) | BD |
| 9GJADX2232 | M | 1P Lead Wire (J4) | AT |
| 9GJADX2233 | M | 1P Lead Wire (J5) | AW |
| 9GJADX2289 | M | 1P Lead Wire (J6) | AF |
| 9GJADX2290 | M | 1P Lead Wire (J7) | AF |
| 9GJADX2291 | M | 1P Lead Wire (J8) | AF |
| 9GJADX2484 | M | 4P Housing Wire (J2) | AH |
| 9GJADX2485 | M | Wire Harness A (J10) | BU |
| 9GJADX2487 | M | Wire Harness B (J11) | BE |

## PACKING PARTS LIST

| Mark | Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|---|
| | 1 | 9GJAHD3020 | M | Upper Carton (64WS) | BU |
| | 2 | 9GJAHD2995 | M | Under Carton (64W) | BD |
| | 3 | 9GJAHA2222 | M | Upper Pad L | AS |
| | 4 | 9GJAHA2223 | M | Upper Pad R | AS |
| | 5 | 9GJAHA2224 | M | Under Pad L | AV |
| | 6 | 9GJAHA2225 | M | Under Pad R | AV |
| NSP | 7 | 9GJAHG1288 | – | Vinyl Sheet 64W Upper | — |
| NSP | 8 | 9GJAHG1230 | – | Packing Sheet (60) | — |
| NSP | 9 | 9GJAHG1290 | – | Packing Sheet 64W Under | — |
| | 10 | 9GJAHG1289 | M | Vinyl Sheet 64W Under | AS |
| NSP | 11 | RRMCG1509CESA | – | Remote Control Unit | — |
| NSP | 13 | – | – | Alkaline Dry Battery (LR6,AA) | — |
| | 14 | 9GJAHC1032 | M | CU Packing Case | AN |
| | 15 | 9GJABA1239 | M | Special Screw | AB |
| | 16 | 9GJARM1161 | M | Conv. Attention Card | AH |
| | 17 | 9GJARB1525 | M | Operation Manual (EN) | BH |
| NSP | 18 | 9GJARM1057 | – | Caution Card | — |
| | 22 | 9GJABA1226 | M | Screw (Panel Frame Attaching Screw) | AC |
| NSP | 23 | 9GJAHG1076 | – | Wrapper Bag | — |
| NSP | 24 | 9GJAHG1222 | – | Literature Bag | — |
| | 25 | 9GJAHB1202 | M | Panel Case (64W) | BF |
| NSP | 26 | 9GJAHG1286 | – | Packing Sheet (64W) (for Panel) | — |
| | 27 | 9GJAAK2729 | M | Contrast Screen 64W | CL |
| | 28 | 9GJARH1161 | M | Acrylic Caution Card (S) | AD |
| | 29 | 9GJAAP1599 | M | Frame Cover H (64WS) | AS |
| NSP | 30 | 9GJAAP1600 | – | Frame Cover V (64WS) | — |
| | 31 | 9GJAND1163 | M | Panel Frame H (64W) | BE |
| | 32 | 9GJAND1164 | M | Panel Frame V (64W) | BD |
| NSP | 33 | 9GJAHA2228 | – | Under Cusion A | — |
| NSP | 34 | 9GJAHA2229 | – | Under Cusion B | — |
| NSP | 35 | TGAN-1029MEZZ | – | Registration Card | — |
| NSP | 36 | RRMCK0023CEZZ | – | IR Mouse | — |
| | 37 | 9GJAHC1024 | M | Packing Case A | AM |
| | 38 | DLAB-2006WEV0 | M | Barcode Label | |

# PACKING OF THE SET

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